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**STANDARD SYSTEM DESIGN LIFE TABLES**


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**TABLE THIRTEEN**

<b>ITEM DESCRIPTION</b>	<b>Replacement Life, Years*</b>	<b>Percent Replaced</b>
<b>0.13 Other Structures and Facilities</b>		
Accelerators. Linear	35	50
Accelerators. Ring	35	50
Air Traffic Aids	15	100
Bridges (Trains)	35	100
Bridges (Vehicular)	45	100
Bridges (Walking)	75	100
Cables, Above Ground (Fire Alarm)	40	100
Cables, Above Ground (Security)	40	100
Cables, Above Ground (Voice/Data)	40	100
Cables, Under Ground (Fire Alarm)	20	100
Cables, Under Ground (Security)	20	100
Cables, Under Ground (Voice/Data)	20	100
Cables, Under Ground (Energy Management)	20	100
Catchall	35	100
Caverns (Oil)	50	100
Cooling Ponds or Reservoirs	35	100
Dams	75	25
Distribution Transformers	30	100
Docks/Wharves	35	100
Electric Generators	25	100
Electrical Cables, Primary	35	100
Electrical Cables, Secondary	40	100
Electrical Cables, Tertiary	45	100
Fencing (Security)	25	100
Helicopter Landing Pad	20	75
Igloos (Explosives)	30	100
Incinerator Plants	30	75
Large Piping (Petroleum Products)	20	40
Laterals (Reclamation)	25	75
Levees/Dikes	25	50
Lift Stations (Sewage)	25	20
Medium Piping (Petroleum Products)	25	20
Metering Stations (Natural Gas)	15	75
Other Boiler	25	100

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Other Industrial, Water Wells	35	100
Other, Air Transportation Systems	25	100
Other, Chill Water Distribution System	30	40
Other, Communications Monitoring Systems	25	100
Other, Communications System Lines	25	100
Other, Communications Systems	25	100
Other, Electrical Distribution System	25	100
Other, Electrical Systems	25	100
Other, Energy Management Control Systems	25	100
Other, Energy Research Accelerators	35	50
Other, Flood Control and Navigation	25	100
Other, Gas Distribution System	15	40
Other, Heating Systems	20	75
Other, Industrial Waste/Haz Piping	15	75
Other, Monuments & Memorials	45	100
Other, Other Service Structures	50	30
Other, Paving Structures	20	75
Other, Photovoltaic Systems	20	50
Other, Plants (Industrial Waste/Hazard)	50	40
Other, Plants (Sewer)	50	30
Other, Pumping Stations	20	75
Other, Railroad Transportation Systems	15	75
Other, Reclamation and Irrigation	25	100
Other, Research and Development	35	100
Other, Security Systems	25	100
Other, Service Structures	50	30
Other, Storage	50	45
Other, Storage (Industrial Waste/Haz)	35	100
Other, Tanks (Gas)	25	100
Other, Tanks (Oil)	25	100
Other, Vehicular Transportation Systems	20	100
Other, Water Lines	30	40
Other, Water Storage	30	100
Other, Water Transportation Systems	25	100
Parking (Aircraft)	15	75
Parking (Vehicular)	25	75
Paving	20	75

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Pipelines (Old RPIS 502 Entries)	40	100
Piping (Fire Protection Water)	30	20
Piping (Hazardous & Contaminated Waste)	15	75
Piping (Hazardous, Not Contaminated, Waste)	20	40
Piping (Industrial Process Gas)	20	40
Piping (Natural Gas)	20	40
Piping (Non-Potable Water)	30	40
Piping (Other Combustible Gases)	20	40
Piping (Potable Water)	30	20
Piping, Gravity (Sewage)	30	20
Piping, Gravity (Stormwater)	30	20
Piping, Pressure (Sewage)	30	20
Piping, Pressure (Stormwater)	30	20
Piping, Return (High-Temperature Water)	30	20
Piping, Return (Steam/Condensate)	30	20
Piping, Supply (High Temperature Water)	30	20
Piping, Supply (Steam)	30	20
Plants (Chill Water)	50	30
Plants (Coal-Fired)	50	40
Plants (Contaminated, Hazardous)	50	40
Plants (Evaporative Cooling)	50	30
Plants (Gas-Fired)	50	40
Plants (Hazardous Not Contaminated)	50	40
Plants (Oil-Fired)	50	40
Plants (Other Combustible Gases)	50	40
Plants (Process Gas)	50	40
Plants (Sewer, Primary Treatment)	50	30
Plants (Sewer, Secondary Treatment)	50	30
Plants (Sewer, Tertiary Treatment)	50	30
Plants (Stormwater, Primary Treatment)	50	30
Plants (Water Treatment)	50	30
Pol Services for Vehicles	50	20
Poles (Voice/Data)	45	100
Poles/Towers (Electrical Distribution)	75	100
Power Development Dams	50	25
Power Transformers	30	100
Primary Roads	15	75

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Primary Tracks	10	100
Pumping Stations	25	75
Pumping Stations (Fire Protection Water)	20	75
Pumping Stations (Natural Gas)	15	75
Pumping Stations (Non-Potable Water)	20	75
Pumping Stations (Potable Water)	20	75
Pumping Stations (Reclamation)	20	75
Pumps (Petroleum Products)	15	100
Pumps (Stormwater)	25	100
Ranges, Rifle/Pistol (Security)	20	100
Return Piping (Chill Water)	30	20
Runways	20	100
Secondary Roads	20	75
Security Lights	20	100
Septic Tanks (Sewer)	35	100
Sidewalks	25	100
Storage (Open Pavement)	25	100
Storage/Diversion Dams (Reclamation)	10	100
Street Lights	20	100
Structures, Industrial, Other	50	50
Structures, Monuments & Memorials	45	100
Substations	25	100
Supply Piping (Chill Water)	30	20
Switching Stations (Voice/Data)	15	100
Tanks (Hazardous Contaminated)	25	100
Tanks (Hazardous Not Contaminated)	25	100
Tanks (Industrial/Not Hazardous)	25	100
Tanks (Oil)	25	100
Tanks (Other Combustible Gases)	25	100
Tanks (Process Gas)	25	100
Tanks (Sewage)	25	100
Tanks (Stormwater)	30	100
Tanks, Gravity (Fire-Protection)	30	100
Tanks, Gravity (Non-Potable)	30	100
Tanks, Gravity (Potable)	30	100
Tanks, Pressure (Fire-Protection)	25	100
Tanks, Pressure (Non-Potable)	25	100

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Tanks, Pressure (Potable)	25	100
Taxi Ways	20	75
Tertiary Roads	30	75
Towers (Chill Water)	45	100
Towers (Security)	45	100
Towers (Voice/Data)	45	100
Transmission Lines 230 Kv	35	100
Tunnels (Vehicular)	50	75
Tunnels (Walking)	75	75
Vaults/Bunkers (Explosives)	35	75
Vehicle Service	35	75
Vehicle Weighing Facility	15	100
Wells (Natural Gas)	100	50
Wells (Non-Potable)	35	100
Wells (Oil)	100	50
Wells (Potable Water)	35	100

*Note: The term Replacement Life is synonymous with Design Life.
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